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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/090,358	03/04/2002	David Tumey	VAC.702.US	3855
60402 KINETIC CON	7590 10/18/200 VCEPTS, INC.	EXAMINER		
ATTN: LEGAI	L DEPARTMENT INT	HAND, MELANIE JO		
P.O. BOX 659: SAN ANTONI		ART UNIT	PAPER NUMBER	
	,		3761	
		•	MAIL DATE	DELIVERY MODE
			10/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Ť			Application No.	Applicant(s)			
Office Action Summary			10/090,358	TUMEY, DAVID			
		Office Action Summary	Examiner	Art Unit			
			Melanie J. Hand	3761			
Pe		The MAILING DATE of this communication app r Reply	ears on the cover sheet with the c	orrespondence address			
	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Sta	atus						
	1)	Responsive to communication(s) filed on 23 Ju	ly 2007.				
	· —	· _ · · · · · · · · · · · · · · · · · ·					
	3)	Since this application is in condition for allowar	ice except for formal matters, pro	secution as to the merits is			
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
	4)🖂	Claim(s) <u>1-10</u> is/are pending in the application.					
		4a) Of the above claim(s) is/are withdrawn from consideration.					
	5))☐ Claim(s) is/are allowed.					
	6)🛛	☑ Claim(s) <u>1-10</u> is/are rejected.					
	7))☐ Claim(s) is/are objected to.					
	8)	Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers							
	9)	The specification is objected to by the Examine	r.				
	10)	The drawing(s) filed on is/are: a)☐ acce	epted or b) \square objected to by the $\mathfrak l$	Examiner.			
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
	11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Pri	iority ι	ınder 35 U.S.C. § 119					
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
		1. Certified copies of the priority documents					
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application							
	Paper No(s)/Mail Date 6) Other:						

DETAILED ACTION

Response to Arguments

Applicant's arguments, see Remarks, filed July 23, 2007, with respect to the rejection(s) of claim(s) 1-10 under 35 U.S.C. 103 have been fully considered and are persuasive.

Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of newly found prior art references. While the Office maintains its position that Svedman renders the claims unpatentable, the grounds of rejection of claim 1 has been changed to introduce references supporting the Office's position that it would be obvious to one of ordinary skill in the art at the time the invention was made to modify the device of Svedman by replacing the temperature sensor taught by Svedman with a fluid composition sensor such as a flow meter.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Svedman ('441) in view of any of Bonne et al (U.S. Patent No. 5,237,523), Shillady (U.S. Patent No. 5,437,184) and Czernak (U.S. Patent No. 6,192,573).

With respect to Claim 1: Svedman teaches a device comprising screen means 11 for placement within a wound bed, sealing means 10 adhered over the screen means and thus also over the wound bed. Conduit 12 fluidly connects said screen means 11 to a vacuum source. A sensing device 16 sensing temperature is placed in the conduit 12 (i.e. between the screen means and

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vacuum source) and connected to the regulator member 15 of supply conduit 12 which connects said screen means and sensing device 16 with the vacuum source. (Col. 3, lines 39-42)

Svedman does not teach that said sensing device is a fluid compositional sensing device. However, at the time the claimed invention was made, it was known in the art to use flow meters to detect changes inflow due to temperature or change in composition that were calibrated for those parameters to obtain temperature and compositional data as supported by Bonne et al, Shillady and Czernak. Thus the flow meters were and are effectively temperature and fluid composition sensors. Thus, it would be obvious to one of ordinary skill in the art at the time the invention was made to modify the device of Svedman so as to include a fluid compositional sensing device such as a flow meter, which also senses changes in temperature, in place of said temperature sensor with a reasonable expectation of success so as to provide a means for sensing change in fluid flow that is caused by a change in unfiltered wound fluid composition, which would further indicate a change in the wound environment, an indication that is useful for proper wound treatment.

Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Svedman ('441) in view of any of Bonne et al (U.S. Patent No. 5,237,523), Shillady (U.S. Patent No. 5,437,184) and Czernak (U.S. Patent No. 6,192,573) as applied to claim 1 above, and further in view of Overton et al ('846).

With respect to Claim 2: Svedman does not teach or fairly suggest that sensing device 16 is comprised of a gas chromatograph. Overton teaches a portable gas chromatograph comprising a photoionization detector (col. 12, lines 23-26). Overton teaches that gas chromatographs are

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commonly used in the art to rapidly identify the contents of gaseous or liquid samples. Thus since the sensor of Svedman and the gas chromatograph taught by Overton seek to solve a similar problem in the art of sensing fluid compositional characteristics, it would be obvious to one with ordinary skill in the art at the time the invention was made to substitute the sensing device taught by Svedman with a gas chromatograph as taught by Overton in order to rapidly detect microorganisms/infection in the drainage fluids.

With respect to Claim 3: Svedman does not teach a gas chromatograph in optical proximity to a photodiode. A photodiode is a type of photodetector, and since Overton teaches that a detector is a main, known component of a gas chromatograph, and Examiner has stated that it would be obvious to one of ordinary skill in the art to employ a gas chromatograph as a fluid compositional sensing device, it would thus also be obvious to one of ordinary skill in the art to modify the sensor of the combined teaching of Svedman and Overton by employing a photodiode as a viable detector element for the chromatograph.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Svedman ('441) in view of any of Bonne et al (U.S. Patent No. 5,237,523), Shillady (U.S. Patent No. 5,437,184) and Czernak (U.S. Patent No. 6,192,573) as applied to claim 1 above, and further in view of Lewis et al ('440).

With respect to Claim 4: Svedman does not teach that the sensing device 16 comprises a sensor array. Lewis teaches sensor arrays that facilitate detecting more than one condition of, and/or analyte in a fluid, thus facilitating the treatment of a patient or wound site for microorganisms causing infection. Therefore it would have been obvious to one with ordinary

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skill in the art at the time the invention was made to substitute the sensor taught by Svedman with the sensor array taught by Lewis so as to detect microorganisms causing infection at a wound site in the drainage fluids.

Claims 5, 6 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Svedman ('441) in view of any of Bonne et al (U.S. Patent No. 5,237,523), Shillady (U.S. Patent No. 5,437,184) and Czernak (U.S. Patent No. 6,192,573) as applied to claim 1 above, and further in view of Henley et al ('109).

With respect to Claim 5: Svedman teaches a fluid removal connection 13 but does not explicitly teach that the connection 13 is to a collection canister. Henley teaches a wound treatment apparatus with a bandage assembly that includes a drainage bandage 20, a vacuum source fluidically communicating with the drainage bandage 20 via flexible tube 24, a sensing device 172 or 174 and a collection canister (164 or 166). Henley teaches that the inclusion of the canisters contributes to the ability to operate the device continuously. ('109, Col. 13, lines 8-14) Thus it would be obvious to one of ordinary skill in the art to modify the device of Svedman by attaching a collection canister to the second end of said fluid connection as taught by Henley to facilitate continuous operation of the device.

With respect to Claim 6: Svedman teaches a device comprising screen means 11 for placement within a wound bed, sealing means 10 adhered over the screen means and thus also over the wound bed. Conduit 12 fluidly connects said screen means 11 to a vacuum source. A sensing device 16 sensing temperature is placed in the conduit 12 (i.e. between the screen means and vacuum source) and connected to the regulator member 15 of supply conduit 12 which

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connects said screen means and sensing device 16 with the vacuum source. (Col. 3, lines 39-42)

Svedman does not teach that said sensing device is a fluid compositional sensing device. However, a temperature increase, for example, signals the presence of bacterial infection, which is a change in composition. It would be obvious to one of ordinary skill in the art to modify the device of Svedman so as to include a fluid compositional sensing device in place of said temperature sensor with a reasonable expectation of success so as to provide a means for sensing an unfiltered wound fluid composition.

Svedman teaches a fluid removal connection 13 but does not explicitly teach that the connection 13 is to a collection canister. Henley teaches a wound treatment apparatus with a bandage assembly that includes a drainage bandage 20, a vacuum source fluidically communicating with the drainage bandage 20 via flexible tube 24, a sensing device 172 or 174 and a collection canister (164 or 166). Henley teaches that the inclusion of the canisters contributes to the ability to operate the device continuously. ('109, Col. 13, lines 8-14) Thus it would be obvious to one of ordinary skill in the art to modify the device of Svedman by attaching a collection canister to the second end of said fluid connection as taught by Henley to facilitate continuous operation of the device.

With respect to Claim 10: Conduit 12 taught by Svedman fluidly connects said screen means 11 to a vacuum source.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Svedman ('441) in view of any of Bonne et al (U.S. Patent No. 5,237,523), Shillady (U.S. Patent No. 5,437,184)

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and Czernak (U.S. Patent No. 6,192,573) and further in view of Henley et al ('109), as applied to claims 5, 6 and 10 above, and in further view of Scherson et al. ('570).

With respect to Claim 7: The combined teaching of Svedman and Henley does not teach that the sensor is embedded in the screen means 11. Scherson teaches an oxygen- producing bandage with several layers, wherein one of the layers comprise a sensor (col. 4, lines 31-39). Scherson teaches that the sensor can regulate the flow of oxygen to the bandage. It would be obvious to one with ordinary skill in the art to embed the sensor taught by the combined teaching of Svedman and Henley in the screen means as taught by Scherson to effectively monitor the drainage fluid composition or parameters to detect the onset of infection at the wound site.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Svedman ('441) in view of any of Bonne et al (U.S. Patent No. 5,237,523), Shillady (U.S. Patent No. 5,437,184) and Czernak (U.S. Patent No. 6,192,573) and further in view of Henley et al ('109), as applied to claims 5, 6 and 10 above, and further in view of Fleischmann ('767).

With respect to Claim 8: Svedman teaches a sensing device and a sealing means but does not teach that said sensing device is disposed on the sealing means. Fleischmann teaches a wound treatment apparatus that comprises a sealing means 14 and a sensing device 38 that is disposed on the sealing means 14 and is in contact with a screen means 12 ('767, Fig. 1 and Col. 4, lines 62-64). Therefore, it is obvious to one with ordinary skill in the art at the time the invention was made to modify the sensor and sealing means taught by the combined teaching

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of Svedman and Henley such that the sensor is disposed on the sealing means to detect infections in the atmosphere near the wound area as taught by Fleischmann.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Svedman ('441) in view of any of Bonne et al (U.S. Patent No. 5,237,523), Shillady (U.S. Patent No. 5,437,184) and Czernak (U.S. Patent No. 6,192,573) and further in view of Henley et al ('109), as applied to claims 5, 6 and 10 above, and further in view of Parker et at. ('391).

With respect to Claim 9: Henley discloses a canister and a sensing device outside of the canister but does not disclose a sensing device for sensing infections located in the canister. Parker teaches a fluid monitoring apparatus comprising a canister 22 with a sensing probe 64 mounted inside the canister (col.5, lines 16-21) to monitor parameters of the fluid collected. This provides additional and more accurate means for detecting infection at the wound site as taught by Parker, therefore it would be obvious to one with ordinary skill in the art to provide the invention of the combined teaching of Svedman and Henley with the sensing probe of Parker inside of the canister taught by Henley.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie J. Hand whose telephone number is 571-272-6464. The examiner can normally be reached on Mon-Thurs 8:00-5:30, alternate Fridays 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tatyana Zalukaeva can be reached on 571-272-1115. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Melanie J Hand Examiner Art Unit 3761

October 11, 2007

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